**Export Documentation**

**Export**

To fetch the data from database into an excel file using web API’s is said to export data, in our application we have written the web API using asp.net named as file Download to perform this task, and we are exporting the data into text files as per the requirement.

**Controller Name – UtilityController.cs**

In utility controller, an action handler named as File download is responsible for the export files, it accepts **type** as parameters.

**Required parameter**

**Type**

In our application we have different types of files to export respectively. So as per the requirement we have declared **type** as parameter to identify which file needs to export accordingly.

**We have nine different types of files to export such as:**

**Type-1 :** Macrofasi [ To export the task ]

**Type -2 :** Progetti [ To export the project]

**Type-3 :** Consuntivi [To export the timesheet]

**Type-4 :** Richiedente progetto [To export the project info]

**Type-5 :** Budget progetti – budget progetti [To export the project cost budget]

**Type-6 :** Consuntivi progetti [To export the project cost actual budget]

**Type-7 :** Legame OKR / progetti [okr] [To export the OKr]

**Type-8 :** Cespiti [To export the Cespiti]

**Type-9 :** Audit [To export the Audit]

To make my understanding well, I have provided with the excel templates of each above-mentioned types. these template defines the requirement of user, such as the number of required columns to be fetch from database and mapped to the desired given column name.

All the required columns mentioned in below excel templates is need to fetch as per the given desired name from database using the template types. We have written queries and stored procedures to fetch the column data from multiple tables respectively with the help of joins.

**Type’s Templates**

**Type-1. [Macrofasi]**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | PV\_D\_DATA\_RIF | Export Date | | PV\_ID\_LEV2\_COD | ID\_Società - level 1 | | PV\_DS\_LEV2 | Società - COS - level 1 | | PV\_ID\_LEV3\_COD | ID\_Area Business - level 2 | | PV\_DS\_LEV3 | Area Business - COS - level 2 | | PV\_ID\_LEV4\_COD | ID\_Area Attività - level 3 | | PV\_DS\_LEV4 | Area Attiivtà - COS - level 3 | | PV\_ID\_LEV5\_COD | ID\_Area Intermedia - COS - level 4 | | PV\_DS\_LEV5 | Area Intermedia COS - level 4 | | PV\_ID\_LEV6\_COD | ID Soggetto - COS - level 5 | | PV\_DS\_LEV6 | Soggetto dalla COS - level 5 | | PV\_DS\_PRJ\_DESCRIPTION | Project Name | | PV\_C\_PRJ\_STATUS | Project State | | PV\_P\_PRJ\_PERCENT\_COMPLETE | Project Percent Complete | | PV\_D\_PRJ\_SCHEDULE\_START | Project Forecast Start date | | PV\_D\_PRJ\_SCHEDULE\_FINISH | Project Forecast Finish date | | PV\_D\_PRJ\_ACTUAL\_START | Project Actual Start Date | | PV\_D\_PRJ\_ACTUAL\_FINISH | Project Actual Finish Date | | PV\_D\_PRJ\_BASELINE\_START | Project Baseline Start Date | | PV\_D\_PRJ\_BASELINE\_FINISH | Project Baseline Finish date | | PV\_DS\_TIPOLOGIA | Project type: Project or Mainenance | | PV\_DS\_WORKFLOW | Wf step | | PV\_ID\_WORK\_ID | Task id | | PV\_DS\_DESCRIPTION | Task name | | PV\_DS\_PRIORITY | Priorità Progetto | | PV\_D\_BASELINE\_START | task baseline start date | | PV\_D\_BASELINE\_FINISH | task baseline finish date | | PV\_D\_SCHEDULE\_START | task forecsast start date | | PV\_D\_SCHEDULE\_FINISH | task forecast finish date | | PV\_D\_ACTUAL\_START | task actual start date | | PV\_D\_ACTUAL\_FINISH | task actual finish date | | PV\_P\_PERCENT\_COMPLETE | task % complete | | PV\_ID\_SHORT\_NAME | Project Code | | PV\_S\_PROJECT\_MANAGER | Project Initiative Manager | | PV\_C\_COD\_PROJECT\_MANAGER | User ID Initiative Manager | | PV\_I\_ACTUAL | task actual hours | | PV\_I\_ACTUAL\_GG | task actual days | | PV\_DS\_MASTER\_PLAN | Masterplan - form field | | PV\_ID\_BILLING\_TYPE | ID - Fatturazione - form field | | PV\_DS\_BILLING\_TYPE | Fatturazione - form field | | PV\_F\_FL\_INNOVATIVO | Flag Innovazione (YES/NO) - form field | | PV\_F\_FL\_NORMATIVO | Progetto Normativo (YES/NO) - form field | | PV\_S\_SPONSOR | Project Initiative Sponsor | | PC\_C\_COD\_SPONSOR | User ID Initiative Sponsor | | PV\_I\_MANUAL\_GG | Days entered manually in actuals on task | | OKR | YES / NO flag if task connected to OKR | |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* bpm\_objects
* tab\_strategy
* tab\_strategy\_project\_mapper
* prog\_t056
* uten\_t017
* bpm\_menu
* bpm\_wf\_step\_details
* msp\_tasks
* bpm\_static\_data
* bpm\_combo\_data
* tab\_prj\_requests
* msp\_task\_assignment\_users

**Type-2. [Progetti]**

|  |  |
| --- | --- |
| PV\_D\_DATA\_RIF | Export Date |
| PV\_C\_PROGETTO\_COD | Project code |
| PV\_ID\_COMMITTENTE\_1\_LIV\_COD | ID\_Società - level 1 |
| PV\_DS\_COMMITTENTE\_1\_LIVELLO | Società - COS - level 1 |
| PV\_ID\_COMMITTENTE\_2\_LIV\_COD | ID\_Area Business - level 2 |
| PV\_DS\_COMMITTENTE\_2\_LIV | Area Business - COS - level 2 |
| PV\_ID\_COMMITTENTE\_3\_LIV\_COD | ID\_Area Attività - level 3 |
| PV\_DS\_COMMITTENTE\_3\_LIVELLO | Area Attiivtà - COS - level 3 |
| PV\_ID\_COMMITTENTE\_4\_LIV\_COD | ID\_Area Intermedia - COS - level 4 |
| PV\_DS\_COMMITTENTE\_4\_LIVELLO | Area Intermedia COS - level 4 |
| PV\_ID\_COMMITTENTE\_5\_LIV\_COD | ID Soggetto - level 5 |
| PV\_DS\_COMMITTENTE\_5\_LIVELLO | Soggetto COS - level 5 |
| PV\_DS\_INIZIATIVA | Strategic Theme |
| PV\_DS\_PROJECT\_SPONSOR | Initiative Sponsor |
| PV\_C\_COD\_PROJECT\_SPONSOR | User ID Initiative Sponsor |
| PV\_DS\_PROGETTO | Project Name |
| PV\_DS\_DESCRIZIONE | Scope description of Progetto - form field |
| PV\_DS\_PROJECT\_MANAGER | Initiative Manager |
| PV\_C\_COD\_PROJECT\_MANAGER | User ID Initiative Manager |
| PV\_DS\_PRIORITA | Strategic Priority |
| PV\_DS\_TIPOLOGIA | Project type: Project or Mainenance |
| PV\_DS\_WORKFLOW | Wf step |
| PV\_D\_INIZIO\_BASELINE | Project baseline start date |
| PV\_D\_INIZIO\_PIANIFICATO | Project forecsast start date |
| PV\_D\_INIZIO\_EFFETTIVO | Project Actual Start Date |
| PV\_D\_FINE\_BASELINE | Project Baseline Finish date |
| PV\_D\_FINE\_PIANIFICATA | Project Forecast Finish date |
| PV\_D\_FINE\_EFFETTIVA | Project Actual Finish Date |
| PV\_C\_STATO | Project State |
| PV\_P\_PERCENTUALE | Project Percent Complete |
| PV\_DS\_MASTER\_PLAN | Masterplan - form field |
| PV\_I\_EFFORT | Forecast value (days) |
| PV\_DS\_INNOVATIVO | Attributi Innovazione (Incremental Innovation,Radical Innovation ecc…) - form field |
| PV\_DS\_INNOVATION\_STATE | Stato Innovazione (Ideation and Study/Conception/Test/Development) - form field |
| PV\_S\_NOTE | Note form field |
| PV\_S\_BILLABLE\_NO\_BILLABLE | Fatturazione (Costo a Utilizzo/A Corpo/ Billable/Non Fatturabile) - form field |
| DS\_PORTAFOGLIO | Portfolio |
| OBJECTIVE | YES / NO flag if Project connected to OKR |
| TIPOLOGIA\_NORMATIVO | Tipologia Normativa - form fielf |
| TIPOLOGIA\_INVESTIMENTO | Tipologia di investimento del progetto - form field |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* bpm\_objects
* tab\_strategy\_project\_mapper
* prog\_t056
* uten\_t017
* bpm\_textbox\_data
* tab\_prj\_requests
* tab\_strategy\_priority
* bpm\_menu
* bpm\_wf\_step\_details
* msp\_tasks
* bpm\_static\_data
* bpm\_combo\_data
* bpm\_texteditor\_data
* pf\_tab\_portfolios
* pf\_tab\_projects\_ascn

**Type-3 [Consuntivi]**

|  |  |
| --- | --- |
| DATA\_RIF | Export Date |
| PERIOD | Timesheet Day (dd-mm-yyyy) |
| MACROPHASEID | Task ID |
| SUBSYSTEM | Project COS Node |
| DBID | Project Code |
| PROJECT | Project Title |
| MACROPHASE | Task Name |
| PHASE | Sub task name (if present) |
| TASK | Sub sub task name (if present) |
| SUBTASK | Sub sub sub task name (if present) |
| USERNAME | Resource Name |
| HOURS | Hours inserted in the day |
| BILLABLE | billable/not billable |
| USERCODE | Resource ID |
| LOCATION | Resource Location (Italia/India/Romania) |
| GRUPPORESP | Department |
| TIPOPROGETTO | Project type: Project or Mainenance |
| TIPOLOGIA\_RISORSA | Resource type: Internal or External |
| WORK\_TYPE | Standard/overtime |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* tab\_tse
* tab\_ts
* msp\_tasks
* bpm\_objects
* ascn\_obs\_prog
* stru\_sist\_t094
* tab\_dip
* uten\_t017
* tab\_locations
* TAB\_WORK\_TYPE
* tab\_departments
* bpm\_menu
* tab\_hours

**Type-4 [Richiedente progetto]**

|  |  |
| --- | --- |
| DATA\_RIF | Export Date |
| CODICE\_PROGETTO | Project Code |
| PROGETTO | Project Name |
| CODICE\_SOCIETA\_RICHIEDENTE | ID\_Società - level 1 |
| SOCIETA\_RICHIEDENTE | Società - COS - level 1 |
| CODICE\_AREA\_RICHIEDENTE | ID\_Area Business - level 2 |
| AREA\_RICHIEDENTE | Area Business - COS - level 2 |
| CODICE\_UNITA\_RICHIEDENTE | ID\_Area Attività - level 3 |
| UNITA\_RICHIEDENTE | Area Attiivtà - COS - level 3 |
| CODICE\_GRUPPO\_RICHIEDENTE | ID\_Area Intermedia - COS - level 4 |
| GRUPPO\_RICHIEDENTE | Area Intermedia COS - level 4 |
| CODICE\_SOTTOSIST\_RICHIEDENTE | ID -"Cliente Pagante" form field |
| SOTTOSIST\_RICHIEDENTE | "Cliente Pagante" form field |
| PERC\_PAGAMENTO | Percent - "Percentuale Pagamento" form field |
| CDR\_SOGGETTO | COD\_ESTERNO - Organigramma per uppwise file |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* bpm\_objects
* prog\_t056
* tab\_initiativeownership
* TAB\_INTIATIVE\_CLINTEPEGANTE
* ASCN\_OBS\_ESTERNO

**Type-5 [Budget progetti – budget progetti]**

|  |  |
| --- | --- |
| DATA\_EXEC | Export Date |
| TIPO\_DATO | Phasing type: M = monthly / A = annual |
| ANNO\_MESE | Year/month |
| COD\_PROGETTO | Project Code |
| ID\_SOGGETTO | ID Soggetto - level 5 |
| DESC\_SOGGETTO | Soggetto COS - level 5 |
| COD\_VOCE | "Cost account code" code |
| DESC\_VOCE | "Cost account code" Description |
| VALORE | € Budget Value |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* bpm\_objects
* cost\_rev\_asso\_task
* tab\_cost\_baseline\_phasing
* classe\_di\_costo\_t043
* ascn\_obs\_prog
* stru\_sist\_t094

**Type-6 [ Consuntivi progetti]**

|  |  |
| --- | --- |
| DATA\_EXEC | Export Date |
| TIPO\_DATO | Phasing type: M = monthly / A = annual |
| ANNO\_MESE | Year/month |
| COD\_PROGETTO | Project Code |
| ID\_SOGGETTO | ID Soggetto - level 5 |
| DESC\_SOGGETTO | Soggetto COS - level 5 |
| COD\_VOCE | "Cost account code" code |
| DESC\_VOCE | "Cost account code" Description |
| VALORE | € Actual Value |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* bpm\_objects
* cost\_rev\_asso\_task
* Tab\_Cost\_Actual\_Phasing
* classe\_di\_costo\_t043
* ascn\_obs\_prog
* stru\_sist\_t094

**Type-7 [ Legame OKR / progetti]**

|  |  |
| --- | --- |
| Data Estrazione | Export Date |
| Codice Progetto | Project code |
| Titolo Progetto | Project Title |
| ID\_Società\_COD | ID\_Società - level 1 |
| DS\_Società | Società - COS - level 1 |
| ID\_Area Business\_COD | ID\_Area Business - level 2 |
| DS\_Area Business | Area Business - COS - level 2 |
| ID\_Area Attività\_COD | ID\_Area Attività - level 3 |
| DS\_Area Attività | Area Attiivtà - COS - level 3 |
| ID\_Area Intermedia\_COD | ID\_Area Intermedia - COS - level 4 |
| DS\_Area Intermedia | Area Intermedia COS - level 4 |
| ID\_Soggetto\_COD | ID Soggetto - level 5 |
| DS\_Soggetto | Soggetto COS - level 5 |
| Objective \_Name | Objective Name |
| KR \_Name | KR Name |
| KR\_Period | KR Period |
| KR\_Progress | KR Progress |
| KR \_Goal | KR Goal |
| U.M. | U M. |
| KR \_Last \_Updated | KR Last Updated |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* bpm\_objects
* tab\_strategy\_project\_mapper
* objectivemapping
* bpm\_collab\_rel
* keyresultsmapping

**Type-8 [Cespiti]**

|  |  |
| --- | --- |
| ID\_Soggetto | id\_soggetto |
| Key | Key |
| Progetto ID | progetto\_id |
| Val.Amm.le | val\_amm\_le |
| Num.Doc. | num\_doc |
| Data Doc. | data\_doc |
| inizio competenza | inizio\_competenza |
| fine competenza | fine\_competenza |
| ID Fornitore | Fornitore |
| Descriz fornitore | descriz\_fornitore |
| SW messo in produzione | messo\_produzione |
| DATA MIP | data\_mip |
| % MIP | Mip |
| SW DA ELIMINARE dalla produzione | sw\_da\_produzione |
| Breve relazione per ELIMINAZIONE | breve\_eliminazione |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* cespiti

**Type-9 [Audit]**

|  |  |
| --- | --- |
| HOME | Access to home page |
| LOGIN | Login to application |
| PROJECTS | Access to projects module |
| DASHBOARD | Access to dashboards module |
| COLLABORATION | Access to collaboration module |
| SETTINGS | Access to settings module |
| PORTFOLIOS | Access to portfolios module |
| PROGRAMS | Access to programs module |
| STRATEGIES | Access to strategies module |
| TIME | Access to time module |
| LOGOFF | Logoff from the system |

We get all data of the given above columns from the below mentioned tables

**Tables Name**

* Audittrail
* uten\_t017